

## 32-3622: k9Cystatin-C Recombinant Protein

**Alternative Name :** Cystatin-C, Cystatin-3, Neuroendocrine basic polypeptide, Gamma-trace, Post-gamma-globulin, CST3, MGC117328.

### Description

Source : E. coli Cystatin-C Protein is a 14.85 kDa protein containing 133 amino acids fused to a 8 aa N-Terminal His-tag. Cystatins are a superfamily of cysteine proteinase inhibitors found in both plants and animals. They comprise a group of proteinase inhibitors, widely distributed in tissues and body fluids, and form tight complexes with cysteine proteases such as cathepsin B, H, L and S. Cystatin C, a secreted molecule of this family, is of interest from biochemical, medicine and evolutionary points of view. Cystatin C, with molecular weight of 13260 Da, is composed of 120 amino acids, lacks carbohydrate and has two disulfide bridges located near the carboxyl terminus. Cystatin C is increased in patients with malignant diseases, and is related to the insufficiency of renal function and appears to be a better marker than creatinine. On the other hand, low levels of cystatin C involve cause the breakdown of the elastic laminae and, subsequently, the atherosclerosis and abdominal aortic aneurysm.

### Product Info

**Amount :** 10 µg  
**Purification :** Purity is greater than 95% as visualized by SDS-PAGE.  
**Content :** K9 Cystatin-C was filtered (0.4µm) and lyophilized from 0.5mg/ml supplied in 20mM TRIS, 50mM NaCl, pH 7.5.  
**Storage condition :** Store lyophilized Cystatin-C K9 at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted Cystatin-C can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.  
**Amino Acid :** MKHHHHHHAS PGAGRRGSRP GAVGGAVDAD VGEEGVQQAL DFAVREYNRA SNDAYHSRAL RVLARKQVV SGMNYFLEVE IGRTRCTKSQ PNLNCPFHD QPHLMRKTLC SFQIYTPWL GKTSLVKSSC QDV.

### Application Note

Add deionized water to prepare a working stock solution of 0.5 mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

